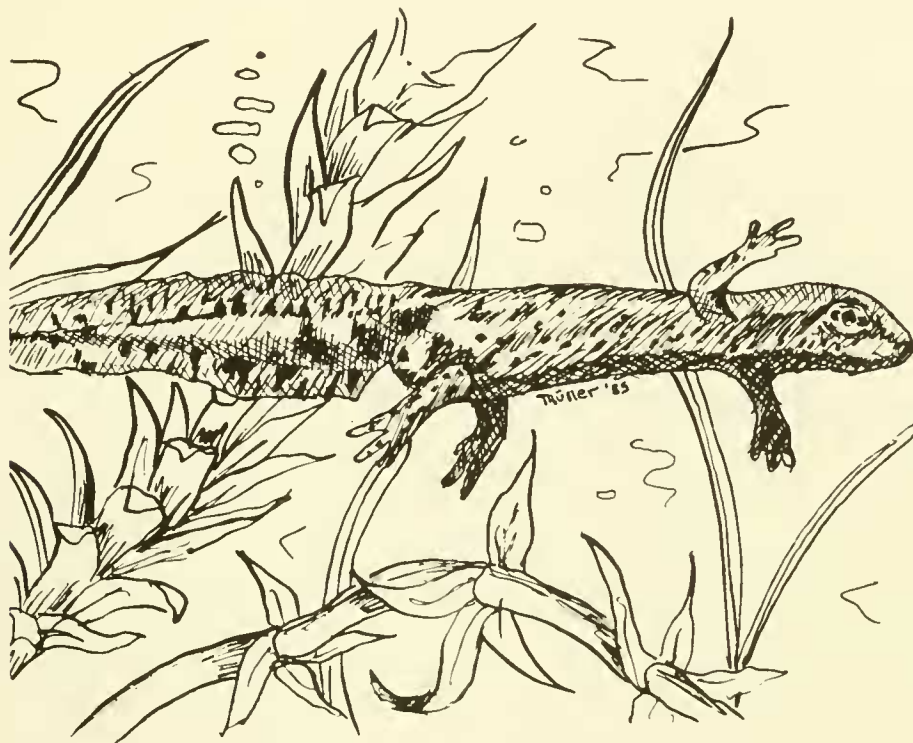


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**BIBLIOGRAPHY AND INDICES TO THE
HERPETOLOGICAL PAPERS PUBLISHED IN
FRESHWATER BIOLOGY AND LIMNOLOGY JOURNALS
1950-1995**



**Dreux J. Watermolen
Wisconsin Department of Natural Resources**



**SMITHSONIAN
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1996

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INTRODUCTION

Amphibians and reptiles are significant and important components of the fauna in many freshwater habitats, often comprising enormous populations and reaching significant biomass levels. For example, as many as 88,000 amphibians were captured in a single year at a 1 ha temporary pond in South Carolina (Savannah River Ecology Laboratory 1980), and freshwater turtles are known to represent the majority of vertebrate biomass in many aquatic habitats (Congdon, et al. 1986; Congdon and Gibbons 1988).

Large numbers of amphibians dominate the higher trophic levels in some habitats. Recent studies (e.g., Schabetsberger and Jersabek 1995) suggest that amphibians are often the top predators in some aquatic systems. Amphibian populations also influence primary and secondary productivity, nutrient influx, and competition in these systems (Seale 1980; Osborne and McLachlan 1985). The potential significance of freshwater turtles as vectors of seeds and parasites among temporary aquatic habitats has also recently been suggested (Congdon and Gibbons 1988).

Because of this importance, one might expect to find a significant number of papers dealing with amphibians and reptiles appearing in freshwater biology and limnology journals. Articles from these journals are often not cited in the herpetological literature, and herpetologists sometimes overlook these journals as potential sources of herpetological information. I was curious to see how extensive this "untapped" literature is. This bibliography is the result of that curiosity and should aid herpetologists in locating several useful papers.

The table of contents of each issue of the following journals was scanned for papers dealing with amphibians or reptiles:

Australian Journal of Marine and Freshwater Research (Vols. 1-45, 1950-1994)

Freshwater Biology (Vols. 1-34, 1971-1995)

Hydrobiologia (Vols. 1-310, 1948-1995)

Hydrobiological Journal (Vols. 5-31, 1969-1995)

Journal of Freshwater Ecology (Vols. 1-10, 1981-1995)

New Zealand Journal of Marine and Freshwater Research (Vols. 1-29, 1967-1995)

In addition, each annual index for the *Canadian Journal of Fisheries and Aquatic Sciences* (Vols. 37-52, 1980-1995) was reviewed for the terms Amphibia, amphibian, frog, newt, Reptilia, reptile, salamander, tadpole, toad, turtle, as well as likely generic names such as *Ambystoma*, *Bufo*, *Chelydra*, *Chrysemys*, *Notophthalmus*, and *Rana*. Similar searches were made of the cumulative indices for *Hydrobiologia* (Vol. 76, covering Vols. 1-75; Vol. 126, covering Vols. 76-125; and Vol. 296, covering Vols. 126-250).

Only two herpetological papers, both dealing with sea turtles, were found in the *New Zealand Journal of Marine and Freshwater Research*. A single review of a book dealing with diseases of marine animals including reptiles (Lester 1987) was also found in this journal. The *Australian Journal of Marine and Freshwater Research* contained only two herpetological papers, one covering nematode parasites of the sea turtle *Caretta caretta* and one dealing with sea snakes. *Hydrobiological Journal* (the English translation of *Gidrobiologicheskiiy zhurnal* and other Soviet journals) contained only one article covering predators of larval *Rana arvalis*.

Volumes 1-5 (1991-1995) of *Freshwater Forum* were also reviewed, but no paper dealing specifically with amphibians or reptiles was found. Although, one paper did briefly mention *Ambystoma*.

REPORT ORGANIZATION

All titles from these journals referring to amphibians or reptiles are listed alphabetically by author in this bibliography. A total of 48 papers was identified. Junior authors are listed alphabetically and cross referenced to senior authors.

Following the bibliography is an index with scientific names of amphibians and reptiles listed alphabetically and cross-referenced to the article(s) where they are mentioned. All original names and spellings have been maintained. Scientific names found in the "literature cited" sections of papers are not included, nor are scientific names taken from references but not actually part of the study.

A subject index follows the scientific name index. Papers are categorized into eight broad categories based on content and cross-referenced by author(s) as in the scientific name index. Most papers deal with feeding and trophic relations of or chemical toxicity to various amphibians.

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Triturus helveticus: Avery 1971a; Avery 1971b; Chardez 1968; Joly and Morand 1994;
Morand and Joly 1995; Young and Reynoldson 1965
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Triturus vulgaris: Avery 1971a; Avery 1971b; Watt and Oldham 1995

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Aquatic Toxicity/Contaminants Clark and LaZerte 1985; Clark and LaZerte 1987; Costa 1967; Freda, et al. 1990; Freda and McDonald 1993; Gilderhus and Johnson 1980; Jeffree 1991; Kutka and Bachmann 1990; Pravda 1973

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Distribution: Eggleston 1971; Glooschenko, et al. 1992; Munro 1966; Redfield, et al. 1978

Feeding/Trophic Interactions: Avery 1971b; Degani, et al. 1980; Holomuzki 1989; Huang and Sih 1991; Johnson 1991; Kessler and Munns 1991; Leff and Bachmann 1988; Luiselli and Rugiero 1991; Osborne and McLachlan 1985; Schabetsberger and Jersabek 1995; Strohmeier, et al. 1989; Surova 1991; Viertel 1992; Watt and Oldham 1995; Young and Reynoldson 1965

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Parasites: Avery 1971a; Chardez 1968; Dailey and Morris 1995; Lester, et al. 1980; McCann 1969

Reproduction: Leh 1994